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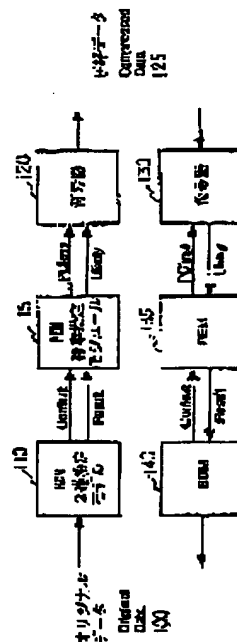
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(54) CODING METHOD, CODER, DECODING METHOD, DECODER, DATA COMPRESSOR, BIT STREAM GENERATING METHOD AND TRANSITION MACHINE GENERATING METHOD

(57)Abstract:

PURPOSE: To obtain the simple and inexpensive method and device for efficient compression/expansion of data expressed by binary decision

CONSTITUTION: A binary decision model(BDM) 110 converts input data 100 into a binary decision series and gives the series to a probability estimate module(PEM) together with a context for each binary decision. The PEM 115 uses the context to generate a class for probability estimate with respect to each binary decision (PC class) and gives it to a coder 120 together with a discrimination result as to whether or not binary decision is in a high probability. The coder 120 generates a compressed data stream representing original data 100. The coder 120 consists of a selection transit mechanism having plural states and a state counter storing the current state.

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